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ABSTRACT OF THE DISCLOSURE

REFRIGERANT RECOVERY DEVICE

SA A single pass refrigerant recovery device recovers refrigerant from a refrigeration system. The device includes at least one hose for withdrawing refrigerant from the refrigeration system and a first oil separator disposed downstream of the refrigerant hose. A filter is disposed downstream from the oil separator and a compressor is disposed downstream from the filter. A second oil separator is disposed downstream from the compressor, and the condenser is disposed downstream from the second oil separator. A moisture indicator is disposed downstream from the condenser, and a storage tank is disposed downstream from the moisture indicator. The refrigerant recovery device also contains an oil return line having a first end disposed downstream from the second oil separator, and a second end disposed upstream from the compressor. A solenoid valve in the oil return line controls the flow of material in the oil return line. A timer for controls the opening and closing of the valve means for permitting the controlled flow of materials in the oil return line between the oil separator and the compressor during operation of the device to ensure an adequate replenishment of a supply of oil in the compressor, and for biasing the valve in an open position when the device is not operating to permit refrigerant to flow therethrough to substantially balance the pressure upstream from the compressor with the pressure downstream from the compressor. EA

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